LABDEX

CO2 Orbital Shaking Incubator
LX501OSI

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Description

CO2 Orbital Shaking Incubator LX501OSI is designed with a 7-inch high-resolution touch screen with a PID control system for rapid temperature rise and high control accuracy. The inner chamber is constructed with SUS304 brushed stainless steel plate and the outer chamber is constructed with Powder coated steel. It has featured various types of safety functions such as utomatic activation of backup data to ensure continuous working in case speed is out of control, and automatic cut-off of heating when temperature rises rapidly caused by heating system failure. It is specially designed for non-adherent cell culture applications in Clinical and Research fields.

Specifications

Capacity	170 L
Chamber dimensions (W x D x H)	580 x 520 x 565 mm
Chamber material	SUS304
Shaking platform material	Aluminum alloy
Exterior material	Mild steel with powder coating
Control	PID
Display	7” Color LCD touch screen
Convection	Forced convection
Shaking (standard)	Orbital/linear (switchable)
Drive	Single shaft balanced drive
Environment temperature	15℃-35℃

Safety protection	Upper/lower limit over temperature and speed acoustic and visual alarm Sensor failure identification Independent over temperature and current protection Refrigeration over load protection
Auxiliary function	Automatic stop Temperature and speed calibration Monitoring timer Clock display Power-on recovery Parameter memory and encryption
Refrigeration	Air cooling, R134a, Power controllable refrigeration, Frost free
CO2 Control range	0-20 %
CO2 Control accuracy	±0.1% (@CO2 concentration 5%)
CO2 Display resolution	0.1,%
CO2 Recovery speed	≤±5min (CO2 concentration 5%, Door open for 30 seconds)
Internal Humidification	Natural (internal water tray under the shaking platform)
Humidity control range	Environmental humidity to 95% RH(without cooling); 80% RH(with cooling)
Humidity control accuracy	±5 %
Door-open recovery time	15 min

Water tank capacity	138 ml
External water tank	1 Pcs
Temp. control range	-18°C -60°C (min. 4°C)
Temp. resolution	0.1℃
Temp. uniformity	≤±0.5 (37℃)
Temp. recovery time	≤±10 minutes
Speed	0-300 rpm
Speed accuracy	±1 rpm
Orbit	Φ25 mm (optional: Φ50mm or 0-50mm adjustable)
Timing range	0-9999hr or 0-9999min
Max stacking units	2
Platform size	480 x 440 mm
Platform quantity	1
Incubating shelf size	550 x 380 x 15 mm (SUS304 material)
Incubating self-quantity	1
Power	Heating: 800 W Cooling: 150 W Motor: 250 W Illumination lamp power: 8 W UV lamp power: 8 W

Input power	AC 200-240V/50-60Hz (Optional: 110V/60Hz)
Overall dimension (W x D x H)	715 x 900 x 810 mm
Net weight	218 kg
Packing dimension (L x W x H)	1020 x 830 x 1090 mm
Gross weight	270 kg

Features

- Maximum shaking speed is 0-300rpm
- CO2 concentration range is 0~20% and Infrared sensor workable at 90°C
- Equipped with a 7-inch touchscreen display with PID control system and various types of audio and visual alarms
- Stackable design for a maximum of 2 units
- Built-in inverter refrigeration system with R134a CFC-free refrigerant
- 3-level access authority with screen lock protection and history data log query
- It has a Fluorescent lamp for illumination and UV light for sterilization in the chamber
- Single-shaft balanced drive
- Featured with DC servo motor for control of positive and negative rotation
- Equipped with double-layer toughened safety glass door
- Soft stop of shaking and heating in case of unexpected door opening, automatic starts when the door is closed again
- Perform real-time curve review and history data storage and export for 1,000,000 records or up to 5 years
- It has a water-resistance chamber
- Adjustable ventilation port
- Came with a unique mechanical drive system with ultra-low noise

- Equipped with a USB port for export data

Applications

- CO2 Orbital Shaking Incubators are mainly used in various fields like Cell Culture, Clinical, Medical, Research lab, Biotechnology, Pharmaceutical, etc.

Standard Accessories

- USB data export interface
- Fluorescent lamp x 2 Pcs
- UV lamp x 2 Pcs
- Incubating self x 1 Pcs
- flask shaking platform x 1 Pcs
- Flask clamps (one size offered as standard configuration)
- CO2 inlet tube (1.6m) x 1 Pcs
- Internal water tray 40-50% RH(@A37℃) x 1 Pcs
- HEPA filter x 1 Pcs
- R485 port

Optional Accessories

- 3 mm orbit high-speed shaking 800-1000rpm for microplates
- CO2 regulation port
- Integrated thermal printer
- Universal spring platform
- Sticky pad
- External humidity control system (with heater and external water tank)
- Humidity control system (with heater and external water tank)
- Light shelter (horizontally open/close)
- LED culture lighting system

Configuration

Flask specification	Maximum capacity
250 ml	25
500 ml	16
1000 ml	9
2000 ml	5
5000 ml	4 (alternatively)

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